

Product datasheet for **AP06181PU-N**

iNOS (NOS2) Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | IF, IHC, WB |
| Recommended Dilution: | Western blot: 1/500-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200. Immunofluorescence: 1/50-1/200. |
| Reactivity: | Human, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Immunogen: | Synthetic peptide, corresponding to amino acids C-terminus of Human NOS2. |
| Specificity: | This antibody detects endogenous levels of NOS2/iNOS protein. (region surrounding Val1131) |
| Formulation: | Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide |
| Concentration: | 1.0 mg/ml |
| Purification: | Affinity Chromatography using epitope-specific immunogen |
| Conjugation: | Unconjugated |
| Storage: | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: One year from despatch. |
| Predicted Protein Size: | ~130.0 kDa |
| Gene Name: | nitric oxide synthase 2 |
| Database Link: | Entrez Gene 4843 Human P35228 |



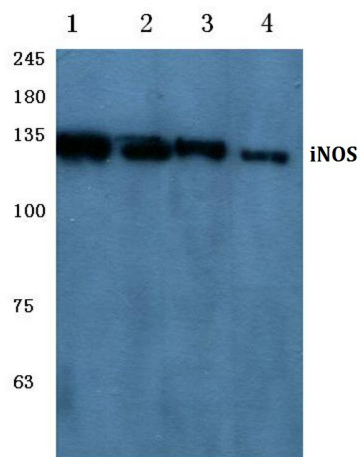
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Background:

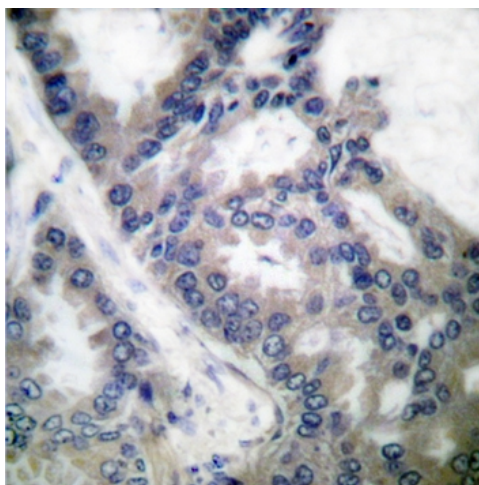
Nitric oxide (NO) has a broad range of biological activities and has been implicated in signaling pathways in phylogenetically diverse species. Nitric oxide synthases (NOSs), the enzymes responsible for synthesis of NO, contain an N-terminal oxygenase domain and a C-terminal reductase domain. NOS activity requires homodimerization as well as three cosubstrates (L-arginine, NADPH and O₂) and five cofactors or prosthetic groups (FAD, FMN, calmodulin, tetrahydrobiopterin and heme). Several distinct NOS isoforms have been described and been shown to represent the products of three distinct genes. These include two constitutive Ca²⁺/CaM-dependent forms of NOS, including ncNOS (also designated NOS1) whose activity was first identified in neurons and maps at 12q24.2, and ecNOS (also designated NOS3), first identified in endothelial cells and mapping at 7q35-36. The inducible form of NOS, iNOS (also designated NOS2), is Ca²⁺-independent, expressed in a broad range of cell types and maps to 17cen -q12.

Synonyms:

NOS2A, iNOS, NOSII, NOS-II

Product images:

Western blot analysis of NOS2 antibody at 1/500 dilution. Lane 1: MCF-7 whole cell lysate. Lane 2: SP2/0 whole cell lysate. Lane 3: PC12 whole cell lysate. Lane 4: Rat liver tissue lysate.



Immunohistochemistry analysis of iNOS antibody in paraffin-embedded Human lung carcinoma tissue.